



# Meridian

## Life Science,® Inc.

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### CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** Q4A435R **Lot #:** 9K32815

**Description:** Rabbit anti D4 Dopamine Rec.  
Rabbit Antibody to Dopamine D4 Receptor (Amino Acids 176-185).

**Specificity:** Specific for Dopamine D4 Receptor (a.a. 176-185). This antisera has been characterized by Immunocytochemical, Western Immunoblot and ELISA techniques.

Cross-reactivity:

D4 Dopamine Receptor (176-185)	100%
D4 Dopamine Receptor	60%
D1 Dopamine Receptor (9-21)	0%
D1 Dopamine Receptor	0%
D2 Dopamine Receptor (272-282)	0%
D2 Dopamine Receptor	0%
D3 Dopamine Receptor (2-10)	0%
D3 Dopamine Receptor	0%
D5 Dopamine Receptor (23-35)	0%
D5 Dopamine Receptor	0%

**Host Animal:** Rabbit

**Immunogen:** D4 (Ac-176-185) covalently attached to a carrier protein.

**Format:** Neat, Lyophilized  
Reconstitute with 0.1 mL of Phosphate Buffered Saline which contains 10 mg/mL BSA or with additional buffer for more dilute antisera.

**Purification:** Not Applicable

**Concentration:** Not Determined

**Buffer:** Not Applicable

**Preservative:** None

**Applications:** Suitable for Immunohistochemistry and Western Blot. This antiserum has been found to stain specific cells in various regions of PLP fixed rat brain sections at a dilution of 1:10,000. This includes the glomeruli of the olfactory bulb, staining of cortex layer 4 and dendritic staining in cortex layers 2 and 3. In layer 5 of the cortex, apical dendrites of many neurons were stained. In the hippocampus, diffuse immunoreactivity was observed in the molecular layer of the dentate gyrus, with fine dots associated with many neurons in the granule cell layer. Western Immunoblots using whole rat brain homogenate resulted in a single wide band being detected at ~48-53 kD at 1:500 dilution. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** Lyophilized: Store at 2-8°C (preferably in a dessicator).

Reconstituted: Aliquot and store at -20°C.

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.

*Brenda Dinn*

04 MARCH 2019

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**